

NC/QC/YD/2020-21/YSD-EG-C2

Date: 02-07-2020

## 1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project\*: Emergency Grants Works in Ward no 03, Attur.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,  
Yelahanka Satellite Town Sub Division,  
BBMP, Bangalore.

Name of the Agency/Contractor\*: Satish. M, Bangalore.

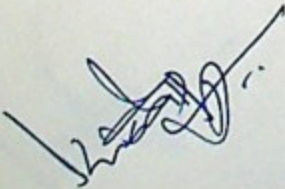
### PHYSICAL TESTS ON CEMENT

Grade \* : 53,  
Type \* : O.P.C

TABLE 1.1:

| SL No | Name of Test                                                 | Test Results  | Requirements as per IS 8112-1989 |
|-------|--------------------------------------------------------------|---------------|----------------------------------|
| 1     | Initial setting time                                         | 156 min       | Shall not be less than 30 min    |
| 2     | Final setting time                                           | 265min        | Shall not be more than 600 min   |
| 3     | Fineness (by dry sieving on IS 90 micron sieve)              | 2.15 %        | Not to exceed 10.0%              |
| 4     | Soundness test (by Le-Chatelier's method)                    | 2.09 mm       | Shall not be more than 10 mm     |
| 5     | Compressive strength<br>a) 3 days (average of three results) | 28.72 N/Sq mm | Shall not be less than 27 N/Sqmm |

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NC/QC/YD/2020-21/YSD-EG-FA1

Date: 02-07-2020

### 1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project\*: Emergency Grants Works in Ward no 03, Attur.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,  
Yelahanka Satellite Town Sub Division,  
BBMP, Bangalore.

Name of the Agency/Contractor\*: Satish. M, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS

| IS Sieve Size,mm | Percentage Passing | Specification as Per IS: 383-1970(Reaffirmed 2002) |         |          | Remarks                                |
|------------------|--------------------|----------------------------------------------------|---------|----------|----------------------------------------|
|                  |                    | Percentage Passing                                 |         |          |                                        |
|                  |                    | Zone-I                                             | Zone-II | Zone -II |                                        |
| 04.75            | 97.25              | 90-100                                             | 90-100  | 90-100   | The Sample Conforms to Grading Zone-II |
| 02.36            | 86.15              | 60-95                                              | 75-100  | 85-100   |                                        |
| 01.18            | 72.05              | 30-70                                              | 55-90   | 75-100   |                                        |
| 600. mic         | 48.50              | 15-34                                              | 35-59   | 60-79    |                                        |
| 300.mic          | 23.40              | 5-20                                               | 8-30    | 12-40    |                                        |
| 150.mic          | 6.15               | 0-10                                               | 0-10    | 0-10     |                                        |

TABLE 1.2 :

| Sl No | Test Conducted   | Sample | Results | Requirements as Per IS: Specification IS :383-1970 (Reaffirmed 2002) |
|-------|------------------|--------|---------|----------------------------------------------------------------------|
| 1     | Bulking of Sand  | 001    | 17.64 % | -----                                                                |
| 2     | Silt Content     | ----   | 0.58%   | Not more than 8%                                                     |
| 3     | Specific Gravity | ----   | 2.61    | -----                                                                |

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NC/QC/YD/2020-21/YSD-EG-CA1

Date: 02-07-2020

### 1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project\*: Emergency Grants Works in Ward no 03, Attur.}

Ref: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,  
Yelahanka Satellite Town Sub Division,  
BBMP, Bangalore.

Name of the Agency/Contractor\*: Satish. M, Bangalore.

**Table - 1.1 : SIEVE ANALYSIS :**

| IS Sieve Size, mm | Percentage passing | Requirements as per IS 383-1970 (Reaffirmed on 2002)<br>% Passing |          |
|-------------------|--------------------|-------------------------------------------------------------------|----------|
|                   |                    | Single size                                                       | Graded   |
| 40 mm             | 100.00             | 100.00                                                            | 100.00   |
| 20 mm             | 98.40              | 85-100                                                            | 90 - 100 |
| 10 mm             | 45.15              | 0 - 20                                                            | 25 - 55  |
| 4.75 mm           | 3.85               | 0 - 5                                                             | 0 - 10   |

**TABLE 1.2 :**

| SL No | Test conducted  | Results | Requirements as per IS 383-1970 & Tests<br>Conforms to IS 2386( Part I to IV) - 1963<br>( Reaffirmed on 2002) |
|-------|-----------------|---------|---------------------------------------------------------------------------------------------------------------|
| 1.    | Flakiness Index | 25.89%  | Not to exceed 25 %                                                                                            |
| 2.    | Crushing value  | 28.34 % | Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces     |

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NC/QC/YD/2020-21/YSD-EG-CB2

Date: 27-07-2020

### 1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project\*: Emergency Grants Works in Ward no 03, Attur.}

Ref: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,  
Yelahanka Satellite Town Sub Division,  
BBMP, Bangalore.

Name of the Agency/Contractor\*: Satish. M, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

#### CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete\* : M<sub>20</sub>

TABLE 1.1:

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in mm <sup>2</sup> | Maximum Load in K.N | Compressive Strength (N/ mm <sup>2</sup> ) | Avg. Value |
|-------|---------------------------|------------------|-----------------|-------------|-----------------------------|---------------------|--------------------------------------------|------------|
| 1     | 001                       | 20-07-20         | 27-07-20        | 07          | 22500                       | 370                 | 16.44                                      | 16.67      |
|       | 002                       | "                | "               | "           | "                           | 380                 | 16.89                                      |            |
|       | 003                       | "                | "               | "           | "                           | 375                 | 16.67                                      |            |

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NC/QC/YD/2020-21/YSD-EG-CB2A

Date: 17-08-2020

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project\*: Emergency Grants Works in Ward no 03, Attur.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,  
Yelahanka Satellite Town Sub Division,  
BBMP, Bangalore.

Name of the Agency/Contractor\*: Satish. M, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

#### CUBE SPECIMENS

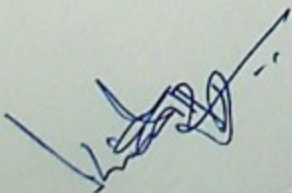
Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete\* : M<sub>20</sub>

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in mm <sup>2</sup> | Maximum Load in K.N | Compressive Strength (N/ mm <sup>2</sup> ) | Avg. Value |
|-------|---------------------------|------------------|-----------------|-------------|-----------------------------|---------------------|--------------------------------------------|------------|
| 1     | 001                       | 20-07-20         | 17-08-20        | 28          | 22500                       | 510                 | 22.67                                      | 22.37      |
|       | 002                       | "                | "               | "           | "                           | 495                 | 22.00                                      |            |
|       | 003                       | "                | "               | "           | "                           | 505                 | 22.44                                      |            |

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NC/QC/YD/2020-21/YSD-EG-CB3A

Date: 20-08-2020

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project\*: Emergency Grants Works in Ward no 03, Attur.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,  
Yelahanka Satellite Town Sub Division,  
BBMP, Bangalore.

Name of the Agency/Contractor\*: Satish. M, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

#### CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete\* : M<sub>20</sub>

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in mm <sup>2</sup> | Maximum Load in K.N | Compressive Strength (N/ mm <sup>2</sup> ) | Avg. Value |
|-------|---------------------------|------------------|-----------------|-------------|-----------------------------|---------------------|--------------------------------------------|------------|
| 1     | 001                       | 23-07-20         | 20-08-20        | 28          | 22500                       | 515                 | 22.89                                      | 22.52      |
|       | 002                       | "                | "               | "           | "                           | 495                 | 22.00                                      |            |
|       | 003                       | "                | "               | "           | "                           | 510                 | 22.67                                      |            |

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